Notice of Allowability Exa	Application No.	Applicant(s)
	10/759,250	MAEKAWA ET AL.
	Examiner	Art Unit
	Dhartill Datal	2836
	Dharti H. Patel	2030
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate common GHTS. This application is so	n this application. If not included unication will be mailed in due course. THIS
1. $igotimes$ This communication is responsive to $an amendment filed of the communication is responsive to$	<u>n 03/01/2006</u> .	
2. \square The allowed claim(s) is/are <u>2-6</u> .		
 Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).
2. Certified copies of the priority documents have	been received in Application	on No
3. Copies of the certified copies of the priority doc	cuments have been receive	d in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXA es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF reclaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review	v (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		•
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on t he header according to 37 CF	he drawings in the front (not the back) of R 1.121(d).
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
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Attachment(s)		
1. Notice of References Cited (PTO-892)		formal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), /Mail Date
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 03/23/06, 01/20/04 		Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 4. Security 1. Securi	8. 🛭 Examiner's	Statement of Reasons for Allowance
	9.	
		-

Application/Control Number: 10/759,250

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The following is an examiner's statement of reasons for indicating allowance of claim 3: The prior art teaches a fuel injection valve that has at least two coils and a control unit, but does not disclose that the control unit outputs a connection changeover signal for connecting said plurality of coils in parallel to set the resultant inductances thereof to small values and for changing said plurality of coils to a series connection to obtain large resultant inductance values. This feature in combination with the rest of the claim limitations is not anticipated or rendered obvious by the prior art of record.

The following is an examiner's statement of reasons for indicating allowance of claim 6: The prior art teaches a direct-current power supply, a power supply voltage detection means, a fuel injection valve with at least two coils, a control unit for controlling the fuel injection valve, and detecting that a voltage detected by said power supply voltage detection means has decreased to a value that has been beforehand, but does not disclose the control method that comprises the steps of creating a connection changeover signal of at least said two coils in response to said detection, changing the connection of the coils to reduce the resultant inductance thereof, and conducting control so that the time-varying characteristics of total magnetomotive force are approximately maintained at the characteristics existing before the power supply voltage decreased. This feature in combination with the rest of the claim limitations is not anticipated or rendered obvious by the prior art of record.

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Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dharti H. Patel whose telephone number is 571-272-8659. The examiner can normally be reached on 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on 571-272-2800, Ext. 36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DHP 03/30/2006

> BRIAN SIRCUS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800